

Summary paragraphs of papers + some quotes

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Liu et al. (2015): Ozonesondes released at reunion island as part of SHADOZ(<http://croc.gsfc.nasa.gov/shadoz/>) are analysed against GMI-CTM grid box profiles matching sonde release dates. 50% increase in tropospheric ozone from 1992 - 2011 in JJA months based on ozonesonde measurements. "Far fewer studies have focused on the long-term behaviour of ozone in the Southern Hemisphere owing to a lack of suitable observations." Sparse sampling does not fully capture Interannual Variability (IAV) in the upper troposphere shown by the model.

Stratospheric influence over Reunion of the tropospheric ozone is important, although model resolution and sonde sparsity make analysis more difficult. "Increasing emission over southern Africa appear to affect only the lower troposphere", with an increasing trend in the middle and upper troposphere during austral winter left unexplained. The widening tropical belt may also be increasing the stratospheric influence over Reunion.

References

Liu, Junhua et al. (2015). "Journal of Geophysical Research : Atmospheres". In: *Journal of Geophysical Research Atmospheres*, pp. 1–19. DOI: 10.1002/2015JD023981. URL: <http://onlinelibrary.wiley.com/doi/10.1002/2015JD023981/abstract>.